

姓名 _____ 學生號碼 _____ 班級號碼 _____

tàn xiǎn jiā / zàn zhù shāng / gōng yīng shāng - jiǎo sè bàn yǎn
探 險 家 / 贊 助 商 / 供 應 商 - 角 色 扮 演

☐ zàn zhù shāng
贊 助 商

寫十個以上的問題來問探險家和
供應商。例如：你的航海專長(ex-
pertise)是什麼？你的設 備
比別人的好嗎？為什麼我要買你的
設備(equipment)？

☐ gōng yīng shāng
供 應 商

寫一段(五個句子以上) 論說文
(descriptive paragraph) 來說服
(convince) 贊助商來賣你的設備(eq-
uipment)。需要準備一張指定設
備圖或是道具。

- ☐ 磁羅盤Magnetic Compass
- ☐ 星盤Astrolabe
- ☐ 火藥Gunpowder
- ☐ 卡拉維爾船Caravel

☐ tàn xiǎn jiā
探 險 家

寫一段(十個句子以上)論說文(d-
escriptive paragraph) 來說服 (convince)
贊助商來贊助(sponsor)你出海找
新大陸。要提到：
技能 (skills) 和品質 (qualities)
需要什麼航海設備(equipment)

- ☐ 馬可波羅Marco Polo, 1271 年
- ☐ 哥倫布Columbus, 1492年
- ☐ 科羅納多Coronado, 1540 年

Explorers/Sponsors/Equipment Providers - Role Play

☐ Sponsors

Write ten or more questions to ask explorers and equipment providers. For examples: What is your navigation expertise? Why should I buy your navigation equipments, are they better than others?

☐ Equipment Providers

Write a descriptive paragraph (five or more sentences) to convince sponsor to buy your assigned equipment. You will need to provide a picture or a prop of your equipment.

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☐ Explorers

Write a descriptive paragraph (ten or more sentences) to convince sponsor to sponsor you to explore the new land. You will need to write about: 技能(skills)和品質(qualities) 需要什麼航海設備(equipment)

- ☐ 馬可波羅Marco Polo, 1271 年
- ☐ 哥倫布Columbus, 1492年
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Changes in Sea Travel

Read the following descriptions to find out more about discoveries that changed sea travel during this time and allowed for exploration.

Magnetic Compass 磁羅盤



A magnetic compass has a needle mounted in a way that allows it to turn freely. Its needle always lines up with Earth's magnetic field and points toward magnetic north北. The needle is set over a diagram that shows east東, south南, and west西. By knowing which way is north北, a sailor can find the other directions.

Sextant 六分儀



A sextant is used to determine the angle between the horizon and a heavenly body such as a star or the Sun. Invented in 1731, it could be used along with a chronometer to determine latitude and longitude.

Astrolabe 星盤



As astrolabe has a metal disk held in a round frame. The sailor used the disk to look at the Sun or a star. Marks on the frame measured how far above the horizon the Sun or star was. A sailor could determine the ship's latitude from this distance.

Chronometer 計時器



A chronometer is a very accurate device used to keep time at sea. It was invented in about 1714.

Gunpowder 火藥



Gunpowder is a material used in weapons. It was first used in Asia and reached Europe in the 1200s. Europeans mounted cannons on their ships, making it safer to travel great distances.

Caravel ship 卡拉維爾船 (輕快帆船)



The caravel was a new kind of smaller ship developed during the 1300s that made longer sea voyages possible. Its lateen sails allowed for better steering, which made the caravel move faster.